# NATIONAL CHEMICAL LABORATORIES, INC.

World Class Cleaning Solutions®

## SAFETY DATA SHEET

## Section 1 - Identification

| | |
|---|---|
| **Product Identifier** | ONE STEP Crystallizer Spray N' Buff |
| **Other means of identification** | 2501 |
| **Recommended use** | Buffing compound. |
| **Recommended restrictions** | For commercial and industrial use only. |
| **Manufacturer / Importer / Supplier / Distributor Information** | |
| **Company Name** | National Chemical Laboratories of PA, Inc. |
| **Address** | 401 N. 10th Street - Philadelphia, PA 19123 |
| **Telephone** | 1 (215) 922-1200 |
| **Supplier Email** | info@nclonline.com |
| **Contact** | CHEM-TEL |
| **Emergency Phone** | 1 (800) 255-3924 |

## Section 2 - Hazard(s) Identification

**SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.**

| | Classification | Category | |
|---|---|---|---|
| **Physical Hazards** | Not Classified | | |
| **Health Hazards** | Serious eye damage/eye irritation | 1 | |
| | Skin corrosion/irritation | 1 | |
| | Specific target organ toxicity, single exposure | 3 | TARGET ORGAN: respiratory tract irritation |
| **OSHA defined hazards** | Not Classified. | | |

**Label Elements**

**Hazard Symbol**

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|---|---|
| **Signal Word** | Danger |
| **Hazard Statement** | Causes severe skin burns and eye damage. May cause respiratory irritation. |
| **Precautionary statement** | |
| **Prevention** | Do not breathe dust or mist. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. |
| **Response** | If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| **Storage** | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |

## Section 3 - Composition/Information on ingredients

**Mixture**

**Hazardous Components**

| Ingredient Name | CAS # | % |
|---|---|---|
| Magnesium fluorosilicate | 16949-65-8 | 10 - 20 |
| Calcium chloride | 10043-52-2 | 1 - 5 |
| Phosphoric Acid | 7664-38-2 | 1 - 5 |

## Section 4 - First-aid Measures

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|---|---|
| **Inhalation** | If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A PHYSICIAN. |
| **Skin contact** | Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. |
| **Eye contact** | Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and |

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| | remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately. |
| **Ingestion** | Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately. |
| **Most Important symptoms /effects, acute and delayed** | Causes skin and eye burns. |
| **Indication of immediate medical attention and special treatment** | Treat symptomatically. |
| **General Information** | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## Section 5 - Fire-fighting measures

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|---|---|
| **Suitable extinguishing media** | Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog. |
| **Unsuitable extinguishing media** | Not available. |
| **Specific hazards arising from the chemical** | None known. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Fire-fighting equipment /instructions** | Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool. |
| **General fire hazards** | This product is not flammable or combustible. |

## Section 6 - Accidental release measures

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| **Personal precautions, protective equipment and emergency procedures.** | Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS. |
| **Methods and materials for containment and cleaning up** | SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.<br>LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. |
| **Environmental precautions** | Avoid discharge into drains, water courses or onto the ground. |

## Section 7 - Handling and storage

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| **Precautions for safe handling** | Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS. |
| **Conditions for safe storage, including any incompatibilities** | Store away from incompatible materials. Keep container closed. |

## Section 8 - Exposure control/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| Magnesium fluorosilicate (CAS 16949-65-8) | TWA | 2.5mg/m³ | |
| Phosphoric Acid (CAS 7664-38-2) | TWA | 1 mg/m³ | |

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

| Components | Type | Value | |
|---|---|---|---|
| Magnesium fluorosilicate (CAS 16949-65-8) | TWA | 2.5 mg.m³ | Dust. |

**US. ACGIH Threshold Limit Values**

| Component | Type | Value | Form |
|---|---|---|---|
| Phosphoric Acid (CAS 7664-38-2) | STEL | 3 mg/m³ | |
| Phosphoric Acid (CAS 7664-38-2) | TWA | 1 mg/m³ | |
| Magnesium fluorosilicate (CAS 16949-65-8) | TWA | 2.5 mg/m³ | |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Magnesium fluorosilicate (CAS 16949-65-8) | TWA | 2.5 mg/m³ |
| Phosphoric Acid (CAS 7664-38-2) | STEL | 3 mg/m³ |
| Phosphoric Acid (CAS 7664-38-2) | REL | 1 mg/m³ |

**US. ACGIH. BEIs. Biological Exposure Indices**

| Components | Value | Determinate | Specimen | Sampling Time |
|---|---|---|---|---|
| Magnesium fluorosilicate (CAS 16949-65-8) | 3 mg/l | Flouride | Urine | * |
| Magnesium fluorosilicate (CAS 16949-65-8) | 2 mg/l | Flouride | Urine | * |

*** - For sampling details, please see the source document.**

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| **Exposure guidelines** | Use personal protective equipment as required. Keep working clothes separately. |

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| **Appropriate engineering controls** | Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities. |
| **Individual protection measures, such as personal protective equipment** | |
| **Eye/face protection** | Wear approved chemical safety goggles. |
| **Skin protection** | |
| **Hand protection** | Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier. |
| **Other** | Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. |
| **Respiratory protection** | Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required. |
| **Thermal hazards** | Wear appropriate thermal protective clothing, when necessary. |
| **General hygiene considerations** | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## Section 9 - Physical and chemical properties

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|---|---|
| **Appearance** | Opaque. |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Off-white |
| **Odor** | Mild, bland. |
| **Odor threshold** | Not available. |
| **pH** | 1.3 |
| **Melting point/freezing point** | Not available. |
| **Initial boinging point and boiling range** | 212 °F (100 °C) |
| **Flash point** | Not available. |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Similar to water. |
| **Vapor density** | Similar to water. |
| **Relative density** | 1.08 ± 0.01 |
| **Relative density temperature** | 75 °F (23.89 °C) |
| **Solubilities** | 10 - 99 % Soluble. |
| **Partition Coefficient n-octanol/water** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | < 50 cP |
| **Viscosity Temperature** | 75 °F (23.89 °C) |

## Section 10 - Stability and reactivity

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|---|---|
| **Reactivity** | Not available. |
| **Chemical stability** | Stable at normal conditions. |
| **Possiblity of hazardous reactions** | Hazardous polymerization does not occur. |
| **Conditions to Avoid** | Contact with incompatible materials. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous Decomposition Products** | Carbon monoxide. Carbon dioxide. |

## Section 11 - Toxicological information

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|---|---|
| **Information on likely routes of exposure** | |
| **Ingestion** | May cause burns of the gastrointestinal tract if swallowed. |
| **Inhalation** | Irritating to respiratory system. |
| **Skin contact** | Causes skin burns. |
| **Eye contact** | Causes serious eye damage. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Causes skin and eye burns. |

**Information on toxicological effects.**

**Acute toxicity** May cause burns.

| Components | Level | Type | Code | Species | Results |
|---|---|---|---|---|---|
| Phosphoric Acid (CAS 7664-38-2) | Acute | Dermal | LD50 | Rabbit | 2740 mg/kg |
| | Acute | Inhalation | LC50 | Rat | 850 mg/m³, 4 H<br>25.5 mg/m³ |
| | Acute | Oral | LD50 | Rat | 1530 mg/kg |
| Magnesium fluorosilicate (CAS 16949-65-8) | Acute | Oral | LD50 | Rat | 291 mg/kg |
| Calcium chloride (CAS 10043-52-2) | Acute | Oral | LD50 | Rat | 1000 mg/kg |

**Skin corrosion/irritation** Causes skin burns.

**Serious eye damage/ eye irritation** Causes serious eye damage.

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not available.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Irritating to respiratory system.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

## Section 12 - Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component(s)**
033 (CAS MIXTURE),
Phosphoric Acid, 7664-38-2

**Aquatic**

| | | | | |
|---|---|---|---|---|
| Acute | Fish | LC50 | Mosquitofish (Gambusia) | 138 mg/l, 96 h |

**Persistence and degradability** The product is expected to be biodegradable.

**Bioaccumulative potential** Not known.

**Mobility in soil** Not available.

**Mobility in general** The product is water soluble and may spread in water systems.

**Other adverse effects** None known.

## Section 13 - Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** Waste codes should be assigned by the user based on the application for which the product was used.

**Waste from residues / unused products** Dispose in accordance with all applicable regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

**DOT**

- **UN number** UN1805
- **Proper shipping name** PHOSPHORIC ACID SOLUTION
- **Transport hazard class(es)** 8
- **Packing group** III
- **Special precautions for user** Not available.
- **Special provisions** A7, IB3, N34, T4, TP1
- **Packaging exemption** 154
- **Packaging non bulk** 203
- **Packaging bulk** 241

**IATA**

- **UN number** UN1805
- **UN proper shipping name** PHOSPHORIC ACID SOLUTION
- **Transport hazard class(es)** 8
- **Packaging group** III

| | |
|---|---|
| **Environmental hazards** | No |
| **ERG Code** | 8L |
| **Special precautions for user** | Not available. |
| **Other Information** | |

**IMDG**

| | |
|---|---|
| **UN number** | UN1805 |
| **UN proper shipping name** | PHOSPHORIC ACID SOLUTION |
| **Transport hazard class(es)** | 8 |
| **Packaging group** | III |
| **Environmental hazards** | No |
| **Marine pollutant** | |
| **EmS** | F-A, S-B |
| **Special precautions for user** | Not available. |

**Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code** This substance/mixture is not intended to be transported in bulk.

## Section 15 - Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)** Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4**

| Components | Result |
|---|---|
| Phosphoric Acid (CAS 7664-38-2) | LISTED |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

| | | |
|---|---|---|
| **Hazard Categories** | Immediate Hazard | Yes |
| | Delayed Hazard | No |
| | Fire Hazard | No |
| | Pressure Hazard | No |
| | Reactivity Hazard | No |

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)** Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

| | |
|---|---|
| **US.Massachusetts RTK - Substance List** | Components |
| | Phosphoric Acid (CAS 7664-38-2) |
| **US.New Jersey Worker and Community Right-to-Know Act** | Components |
| | Phosphoric Acid (CAS 7664-38-2) |
| | Magnesium fluorosilicate (CAS 16949-65-8) |
| **US.Pennsylvania RTK - Hazardous Substances** | Components |
| | Phosphoric Acid (CAS 7664-38-2) |
| | Magnesium fluorosilicate (CAS 16949-65-8) |
| **US.Rhode Island RTK** | Components |
| | Phosphoric Acid (CAS 7664-38-2) |
| **US - California Propsition 65** | California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. |

**International Inventories**

| Country(s) or region | Inventory Name | On Inventory (yes/no)* |
|---|---|---|
| **Australia** | **Australian Inventory of Chemical Substances (AICS)** | Yes |
| **Canada** | **Domestic Substances List (DSL)** | Yes |
| **Canada** | **Non-Domestic Substances List (NDSL)** | No |
| **China** | **Inventory of Existing Chemical Substances in China (IECSC)** | Yes |
| **Europe** | **European Inventory of Existing Commercial Chemical Substances (EINECS)** | No |
| **Europe** | **European List of Notifed Chemical Substances (ELINCS)** | No |
| **Japan** | **Inventory of Existing and New Chemical Substances (ENCS)** | Yes |
| **Korea** | **Existing Chemicals List (ECL)** | Yes |
| **New Zealand** | **New Zealand Inventory** | Yes |
| **Philippines** | **Philippine Inventory of Chemicals and Chemical Substances** | Yes |

| | | |
|---|---|---|
| **Unites States Puerto Rico** | **Toxic Substances Control Act (TSCA) Inventory** | Yes |

***A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).**

***A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).**

## Section 16 - Other information, including date of preparation or last version

| | |
|---|---|
| **Issue date** | 5/14/2014 |
| **Version #** | 01 |
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